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FERRULE 1.500 — 1.500

CONTACT RETAINING RING SPRING

├ .473 ┤ DIELECTRIC STIFFENER

IRIC STIFFENER LY LY LY L

@ 500 VOLTS DC

## **SPECIFICATIONS**

#### **ELECTRICAL**

D

IMPEDANCE: 50 OHMS NOMINAL FREQUENCY RANGE: 0-4.5 GHz

VSWR: 1.70:1 MAXIMUM

INSERTION LOSS: 0.3 dB @ 4.5 GHz

DIELECTRIC WITHSTANDING: 2500 VRMS @ SEA LEVEL WORKING VOLTAGE: 1000 VRMS @ SEA LEVEL INSULATION RESISTANCE: 5000 MEGOHMS MINIMUM

#### MECHANICAL

MECHANICAL INTERFACE PER ARINC SPEC 600

FIGURE 19-54.2

TERMINATION STYLE: INNER CONTACT—SOLDER OR CRIMP
OUTER CONTACT—FERRULE CRIMP

CABLE RETENTION: 20 LBS

### **ENVIRONMENTAL**

TEMPERATURE RATING: -65° TO +200°

VIBRATION: MIL-STD-202, METHOD 204, COND. B SHOCK: MIL-STD-202, METHOD 213, COND.

THERMAL SHOCK: MIL—STD—202, METHOD 107, COND. B CORROSION: MIL—STD—202, METHOD 101, COND. B MOISTURE RESISTANCE: MIL—STD—202, METHOD 106

## <u>MATERIALS</u>

BODY: BRASS PER ASTM B16

FERRULE: ANNEALED BRASS PER ASTM B16 CABLE CONTACT: BRASS PER ASTM B16

CENTER CONTACT: BERYLLIUM COPPER PER ASTM B196

DIELECTRIC: TEFLON PER ASTM D1710

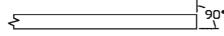
#### <u>FINISHES</u>

FERRULE: BRIGHT NICKEL PER QQ-N-290

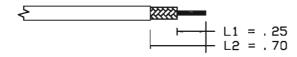
BODY, CENTER CONTACT: GOLD PER MIL-G-45204

# INSTALLATION INSTRUCTIONS

1. BEGIN BY CUTTING THE CABLE OFF SQUARE.



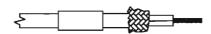
 STRIP THE CABLE AS SHOWN, BEGINNING WITH L1 AND ENDING WITH L2. TAKE CARE NOT TO NICK THE CONDUCTORS WHILE STRIPPING THE DIELECTRIC AND JACKET. THE USE OF A STRIPPER DESIGNED FOR COAXIAL CABLE IS RECOMMENDED.



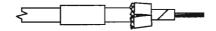
 SLIDE THE FERRULE AND ADHESIVE SHRINK TUBING OVER THE END OF THE CABLE.



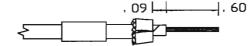
4. USING TWEEZERS, FOLD THE OUTER BRAID BACK OVER THE CABLE JACKET, LEAVING AS MUCH WEAVE AS POSSIBLE.



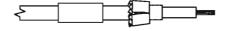
SLIT FOIL LONGITUDINALLY AND FOLD BACK OVER THE OTHER SHIELD.



REMOVE THE DIELECTRIC FROM THE CENTER CONDUCTOR BACK APPROXIMATELY .60 INCHES FROM THE END OF THE CONDUCTOR. BE CAREFUL NOT TO NICK THE CENTER CONDUCTOR. THERMAL STRIPPERS ARE RECOMMENDED. LEAVE APPROXIMATELY .09 INCHES OF DIELECTRIC ON THE CABLE FOR THE CUP IN THE STIFFENER.

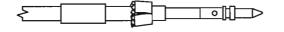


. INSTALL DIELECTRIC STIFFENER OVER CENTER CONDUCTOR
AND THE CABLE DIELECTRIC MAKING SURE THAT CABLE DIELECTRIC
IS FULLY SEATED INSIDE CUPPED END OF DIELECTRIC STIFFENER.



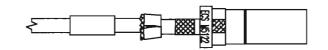
3. ENSURE THAT THE CONTACT IS BUTTED AGAINST THE DIELECTRIC STIFFENER. TERMINATE CONTACT USING METHOD A OR B.

- a) SOLDER CONTACT ONTO CENTER CONDUCTOR, PER MIL-STD-2000, USING 63Sn/37Pb SOLDER. CLEAN FLUX RESIDUE USING APPROPRIATE CLEANER.
- b) CRIMP CONTACT ONTO CENTER CONDUCTOR USING A M22520/5-09 DIE (B HEX). IN A M22520/5-01 TOOL FRAME.

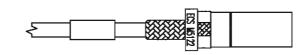


REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
_	N/C	NEW RELEASE	7/6/01	C CHAPMAN
_	Α	CHANGED STIFFENER AND STRIPPING DIM'S	4/16/03	DEK
	В	FREQ RANGE 4.5 WAS 6 GHz	8/13/13	CAC
	С	INSERTION LOSS 4.5 WAS 6 GHz	8/15/13	CAC
		- N/C - A B	ZONE REV. DESCRIPTION  - N/C NEW RELEASE  - A CHANGED STIFFENER AND STRIPPING DIM'S  B FREQ RANGE 4.5 WAS 6 GHz	ZONE         REV.         DESCRIPTION         DATE           -         N/C         NEW RELEASE         7/6/01           -         A         CHANGED STIFFENER AND STRIPPING DIM'S 4/16/03           B         FREQ RANGE 4.5 WAS 6 GHz         8/13/13

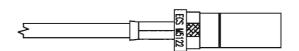
9. SLIDE THE BODY OF THE CONNECTOR OVER THE END OF THE CABLE UNTIL THE NOTCH IN THE CONTACT SEATS WITH THE DIELECTRIC RIDGE INSIDE THE CONNECTOR. <u>CAUTION</u>: PUSH CABLE INTO THE CONDUCTOR STRAIGHT TO AVOID KINKING THE CABLE.



10. FOLD ALL THE BRAIDS OVER THE NECK OF THE CONNECTOR BODY.



11. SLIDE THE FERRULE UP OVER THE SHIELDS AND AGAINST THE CONNECTOR BODY. TRIM AWAY ANY EXCESS BRAID. CRIMP THE FERRULE ONCE, NEXT TO THE BODY, USING A M22520/5-09 DIE (A HEX) IN A M22520/5-01 TOOL FRAME. APPLY ADHESIVE HEAT SHRINK.

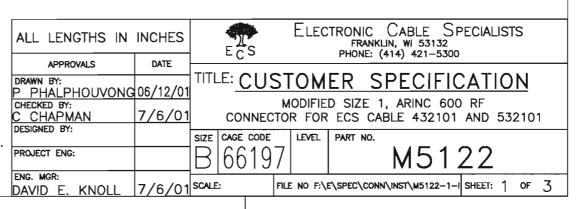


# <u>NOTES</u>

1 ENSURE HEAT SHRINK IS INSTALLED PRIOR TO CRIMPING CONNECTOR.

ADHESIVE HEAT SHRINK SHOULD BE APPLIED IN ACCORDANCE WITH ECS WORK INSTRUCTION WI007. CONTACT ECS FOR A COPY OF THIS WORK INSTRUCTION.

 $\stackrel{\textstyle \checkmark}{3}$  connector dimensions are for reference only.



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